

Appendix table 4-29

Federal budget authority for basic research, by budget function: FY 1980–2010

Year	All functions	All defense	All nondefense	Health	Space research/technology	Energy	General science	Natural resources/environment	Transportation	Agriculture	Education, training, employment, and social services	International affairs	Veterans benefits/services	Commerce/housing credit	Community/regional development	Administration of justice	Income security	General government
	Current \$millions																	
1980	4,716	552	4,164	1,761	482	200	1,152	136	79	246	61	0	14	15	8	9	1	*
1981	5,107	610	4,497	1,951	445	220	1,256	131	89	281	66	12	15	17	5	5	3	3
1982	5,305	696	4,609	1,953	434	260	1,296	139	102	295	78	10	13	17	7	4	0	2
1983	6,247	788	5,459	2,475	501	320	1,439	156	117	326	70	10	14	19	6	4	0	3
1984	7,072	845	6,227	2,813	646	365	1,606	192	125	353	77	3	15	20	5	5	0	3
1985	7,810	856	6,954	3,243	498	428	1,779	206	255	406	86	4	15	23	6	4	0	4
1986	8,193	960	7,233	3,324	737	456	1,795	204	184	390	83	5	15	26	6	5	0	5
1987	9,021	900	8,121	3,851	843	511	1,942	206	231	397	78	3	17	26	4	8	0	4
1988	9,553	905	8,648	4,087	944	571	2,061	210	197	428	83	3	17	28	7	8	0	5
1989	10,648	965	9,683	4,413	1,099	703	2,265	331	287	433	92	3	16	29	3	7	0	3
1990	11,288	964	10,324	4,661	1,389	761	2,306	336	242	456	106	4	16	31	3	9	0	3
1991	12,405	1,188	11,217	5,021	1,479	878	2,526	389	246	486	115	6	16	39	10	6	0	0
1992	12,973	1,147	11,826	5,506	1,499	921	2,532	383	266	528	118	6	16	35	11	5	0	0
1993	13,440	1,323	12,117	5,700	1,588	917	2,553	376	238	553	121	8	16	34	10	5	0	0
1994	13,552	1,174	12,378	5,889	1,796	921	2,542	224	220	567	145	6	16	38	9	5	0	0
1995	13,772	1,181	12,591	6,068	1,614	930	2,622	187	389	565	153	0	16	35	3	9	0	0
1996	14,442	1,165	13,277	6,395	1,685	1,182	2,662	147	456	547	140	2	13	37	0	12	0	0
1997	14,961	1,090	13,871	6,852	1,653	1,288	2,753	153	420	548	142	2	14	34	0	13	0	0
1998	15,523	1,067	14,456	7,356	1,610	34	4,121	145	411	571	133	1	23	35	0	16	0	0
1999	17,433	1,110	16,323	8,634	1,667	36	4,464	142	358	602	99	0	263	41	0	18	0	0
2000	19,470	1,184	18,286	10,099	1,616	36	4,722	146	542	651	107	42	266	39	0	20	0	0
2001	21,376	1,303	20,073	11,642	1,695	40	5,187	215	17	749	112	50	289	50	0	27	0	0
2002	23,848	1,404	22,444	12,957	1,912	45	5,561	471	17	762	115	53	465	56	0	30	0	0
2003	25,323	1,409	23,914	14,162	2,206	40	5,907	185	23	824	125	18	327	53	1	42	0	0
2004	26,529	1,380	25,149	14,850	2,473	32	6,198	201	20	780	125	18	347	46	0	58	0	0
2005	27,678	1,508	26,170	15,826	2,486	31	6,238	195	65	789	130	18	297	53	0	42	0	0
2006	27,336	1,490	25,846	15,532	2,299	8	6,406	195	0	805	131	18	318	66	0	68	0	0
2007	28,166	1,533	26,633	15,637	2,318	7	6,887	260	2	821	149	18	335	92	0	106	0	0
2008	28,740	1,631	27,109	15,909	2,183	16	7,260	210	0	790	146	18	354	98	0	125	0	0
2009	36,401	1,772	34,629	21,108	932	28	10,727	219	0	799	155	18	375	152	0	115	0	0
Actual	28,161	1,769	26,392	15,767	900	28	7,913	219	0	799	145	18	375	112	0	115	0	0
ARRA	8,240	3	8,237	5,341	32	0	2,814	0	0	0	10	0	0	40	0	0	0	0
2010 preliminary	29,139	1,887	27,252	16,093	884	49	8,268	237	0	876	168	18	464	121	0	73	0	0
Constant FY 2005 \$millions																		
1980	10,019	1,173	8,846	3,741	1,024	425	2,447	289	168	523	130	0	30	32	17	19	2	*
1981	9,876	1,180	8,697	3,773	861	425	2,429	253	172	543	128	23	29	33	10	10	6	6
1982	9,602	1,260	8,342	3,535	786	471	2,346	252	185	534	141	18	24	31	13	7	0	4
1983	10,830	1,366	9,464	4,291	869	555	2,495	270	203	565	121	17	24	33	10	7	0	5

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Year	All functions	All defense	All nondefense	Health	Space research/technology	General science	Natural resources/environment	Transportation	Agriculture	Education, training, employment, and social services	International affairs	Veterans benefits/services	Commerce/housing credit	Community/regional development	Administration of justice	Income security	General government	
	11,824	1,413	10,411	4,703	1,080	610	2,685	321	209	590	129	5	25	33	8	8	0	5
1984	11,824	1,413	10,411	4,703	1,080	610	2,685	321	209	590	129	5	25	33	8	8	0	5
1985	12,648	1,386	11,262	5,252	806	693	2,881	334	413	657	139	6	24	37	10	6	0	6
1986	12,968	1,519	11,448	5,261	1,167	722	2,841	323	291	617	131	8	24	41	9	8	0	8
1987	13,908	1,388	12,521	5,937	1,300	788	2,994	318	356	612	120	5	26	40	6	12	0	6
1988	14,271	1,352	12,919	6,105	1,410	853	3,079	314	294	639	124	4	25	42	10	12	0	7
1989	15,312	1,388	13,924	6,346	1,580	1,011	3,257	476	413	623	132	4	23	42	4	10	0	4
1990	15,656	1,337	14,319	6,465	1,926	1,055	3,198	466	336	632	147	6	22	43	4	12	0	4
1991	16,578	1,588	14,990	6,710	1,976	1,173	3,376	520	329	649	154	8	21	52	13	8	0	0
1992	16,896	1,494	15,402	7,171	1,952	1,200	3,298	499	346	688	154	8	21	46	14	7	0	0
1993	17,125	1,686	15,440	7,263	2,023	1,168	3,253	479	303	705	154	10	20	43	13	6	0	0
1994	16,910	1,465	15,445	7,348	2,241	1,149	3,172	280	275	708	181	7	20	47	11	6	0	0
1995	16,828	1,443	15,385	7,414	1,972	1,136	3,204	228	475	690	187	0	20	43	4	11	0	0
1996	17,312	1,397	15,916	7,666	2,020	1,417	3,191	176	547	656	168	2	16	44	0	14	0	0
1997	17,612	1,283	16,328	8,066	1,946	1,516	3,241	180	494	645	167	2	16	40	0	15	0	0
1998	18,044	1,240	16,803	8,551	1,871	40	4,790	169	478	664	155	1	27	41	0	19	0	0
1999	19,999	1,273	18,725	9,905	1,912	41	5,121	163	411	691	114	0	302	47	0	21	0	0
2000	21,903	1,332	20,571	11,361	1,818	40	5,312	164	610	732	120	47	299	44	0	22	0	0
2001	23,493	1,432	22,061	12,795	1,863	44	5,701	236	19	823	123	55	318	55	0	30	0	0
2002	25,784	1,518	24,266	14,009	2,067	49	6,013	509	18	824	124	57	503	61	0	32	0	0
2003	26,820	1,492	25,327	14,999	2,336	42	6,256	196	24	873	132	19	346	56	1	44	0	0
2004	27,395	1,425	25,970	15,335	2,554	33	6,400	208	21	805	129	19	358	48	0	60	0	0
2005	27,678	1,508	26,170	15,826	2,486	31	6,238	195	65	789	130	18	297	53	0	42	0	0
2006	26,432	1,441	24,991	15,018	2,223	8	6,194	189	0	778	127	17	307	64	0	66	0	0
2007	26,437	1,439	24,998	14,677	2,176	7	6,464	244	2	771	140	17	314	86	0	99	0	0
2008	26,372	1,497	24,875	14,598	2,003	15	6,662	193	0	725	134	17	325	90	0	115	0	0
2009	32,963	1,605	31,358	19,114	844	25	9,714	198	0	724	140	16	340	138	0	104	0	0
Actual	25,501	1,602	23,899	14,278	815	25	7,166	198	0	724	131	16	340	101	0	104	0	0
ARRA	7,462	3	7,459	4,837	29	0	2,548	0	0	0	9	0	0	36	0	0	0	0
2010 preliminary	26,188	1,696	24,492	14,463	794	44	7,431	213	0	787	151	16	417	109	0	66	0	0

Budget function share of totals, percent

1980	100	11.7	88.3	37.3	10.2	4.2	24.4	2.9	1.7	5.2	1.3	0.0	0.3	0.3	0.2	0.2	0.0	*
1981	100	11.9	88.1	38.2	8.7	4.3	24.6	2.6	1.7	5.5	1.3	0.2	0.3	0.3	0.1	0.1	0.1	0.1
1982	100	13.1	86.9	36.8	8.2	4.9	24.4	2.6	1.9	5.6	1.5	0.2	0.2	0.3	0.1	0.1	0.0	0.0
1983	100	12.6	87.4	39.6	8.0	5.1	23.0	2.5	1.9	5.2	1.1	0.2	0.2	0.3	0.1	0.1	0.0	0.0
1984	100	11.9	88.1	39.8	9.1	5.2	22.7	2.7	1.8	5.0	1.1	0.0	0.2	0.3	0.1	0.1	0.0	0.0
1985	100	11.0	89.0	41.5	6.4	5.5	22.8	2.6	3.3	5.2	1.1	0.1	0.2	0.3	0.1	0.1	0.0	0.1
1986	100	11.7	88.3	40.6	9.0	5.6	21.9	2.5	2.2	4.8	1.0	0.1	0.2	0.3	0.1	0.1	0.0	0.1
1987	100	10.0	90.0	42.7	9.3	5.7	21.5	2.3	2.6	4.4	0.9	0.0	0.2	0.3	0.0	0.1	0.0	0.0
1988	100	9.5	90.5	42.8	9.9	6.0	21.6	2.2	2.1	4.5	0.9	0.0	0.2	0.3	0.1	0.1	0.0	0.1

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	100	9.1	90.9	41.4	10.3	6.6	21.3	3.1	2.7	4.1	0.9	0.0	0.2	0.3	0.0	0.1	0.0	0.0
1989	100	9.1	90.9	41.4	10.3	6.6	21.3	3.1	2.7	4.1	0.9	0.0	0.2	0.3	0.0	0.1	0.0	0.0
1990	100	8.5	91.5	41.3	12.3	6.7	20.4	3.0	2.1	4.0	0.9	0.0	0.1	0.3	0.0	0.1	0.0	0.0
1991	100	9.6	90.4	40.5	11.9	7.1	20.4	3.1	2.0	3.9	0.9	0.0	0.1	0.3	0.1	0.0	0.0	0.0
1992	100	8.8	91.2	42.4	11.6	7.1	19.5	3.0	2.1	4.1	0.9	0.0	0.1	0.3	0.1	0.0	0.0	0.0
1993	100	9.8	90.2	42.4	11.8	6.8	19.0	2.8	1.8	4.1	0.9	0.1	0.1	0.3	0.1	0.0	0.0	0.0
1994	100	8.7	91.3	43.5	13.3	6.8	18.8	1.7	1.6	4.2	1.1	0.0	0.1	0.3	0.1	0.0	0.0	0.0
1995	100	8.6	91.4	44.1	11.7	6.8	19.0	1.4	2.8	4.1	1.1	0.0	0.1	0.3	0.0	0.1	0.0	0.0
1996	100	8.1	91.9	44.3	11.7	8.2	18.4	1.0	3.2	3.8	1.0	0.0	0.1	0.3	0.0	0.1	0.0	0.0
1997	100	7.3	92.7	45.8	11.0	8.6	18.4	1.0	2.8	3.7	0.9	0.0	0.1	0.2	0.0	0.1	0.0	0.0
1998	100	6.9	93.1	47.4	10.4	0.2	26.5	0.9	2.6	3.7	0.9	0.0	0.1	0.2	0.0	0.1	0.0	0.0
1999	100	6.4	93.6	49.5	9.6	0.2	25.6	0.8	2.1	3.5	0.6	0.0	1.5	0.2	0.0	0.1	0.0	0.0
2000	100	6.1	93.9	51.9	8.3	0.2	24.3	0.7	2.8	3.3	0.5	0.2	1.4	0.2	0.0	0.1	0.0	0.0
2001	100	6.1	93.9	54.5	7.9	0.2	24.3	1.0	0.1	3.5	0.5	0.2	1.4	0.2	0.0	0.1	0.0	0.0
2002	100	5.9	94.1	54.3	8.0	0.2	23.3	2.0	0.1	3.2	0.5	0.2	1.9	0.2	0.0	0.1	0.0	0.0
2003	100	5.6	94.4	55.9	8.7	0.2	23.3	0.7	0.1	3.3	0.5	0.1	1.3	0.2	0.0	0.2	0.0	0.0
2004	100	5.2	94.8	56.0	9.3	0.1	23.4	0.8	0.1	2.9	0.5	0.1	1.3	0.2	0.0	0.2	0.0	0.0
2005	100	5.4	94.6	57.2	9.0	0.1	22.5	0.7	0.2	2.9	0.5	0.1	1.1	0.2	0.0	0.2	0.0	0.0
2006	100	5.5	94.5	56.8	8.4	0.0	23.4	0.7	0.0	2.9	0.5	0.1	1.2	0.2	0.0	0.2	0.0	0.0
2007	100	5.4	94.6	55.5	8.2	0.0	24.5	0.9	0.0	2.9	0.5	0.1	1.2	0.3	0.0	0.4	0.0	0.0
2008	100	5.7	94.3	55.4	7.6	0.1	25.3	0.7	0.0	2.7	0.5	0.1	1.2	0.3	0.0	0.4	0.0	0.0
2009	100	4.9	95.1	58.0	2.6	0.1	29.5	0.6	0.0	2.2	0.4	0.0	1.0	0.4	0.0	0.3	0.0	0.0
Actual	100	6.3	93.7	56.0	3.2	0.1	28.1	0.8	0.0	2.8	0.5	0.1	1.3	0.4	0.0	0.4	0.0	0.0
ARRA	100	0.0	100.0	64.8	0.4	0.0	34.2	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
2010 preliminary	100	6.5	93.5	55.2	3.0	0.2	28.4	0.8	0.0	3.0	0.6	0.1	1.6	0.4	0.0	0.3	0.0	0.0

* = ≤\$500,000

ARRA = American Recovery and Reinvestment Act of 2009

NOTES: Detail may not add to total because of rounding. In FY 2009 the National Aeronautics and Space Administration (NASA) adjusted its R&D reporting to more closely match survey data reported to the National Science Foundation. In FY 2007 the Department of Homeland Security (DHS) changed its R&D portfolio to reclassify funding in defense and most administration of justice as general science and basic research. In FY 2004 DHS changed its R&D portfolio to reclassify funding in general science and basic research and in agriculture as administration of justice. In FY 2000 NASA transferred funding for space station program from R&D to R&D plant; this change reflected in budget authority for space research and technology. In FY 2000 National Institutes of Health in the Department of Health and Human Services classified all of its previous development activities as basic research or applied research, with resulting increase in health basic research. In FY 1998 many Department of Energy programs were reclassified from energy to general science and basic research. In FY 1998 Department of Veterans Affairs began reporting medical care support funds as part of its total research budgetary resources; this change reflected in budget authority for veteran benefits and services. 1980–94 data are from agencies' submissions to Office of Management and Budget (OMB), Circular No. A-11, Exhibit 44A, "Research and Development Activities," and supplemental data obtained from agencies' budget offices. 1995–2010 data are from agencies' submissions to OMB per MAX Schedule C, budget justification documents, and supplemental data obtained from agencies' budget offices.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics (NCSES), Federal R&D Funding by Budget Function: FY 2009–11. All NSF/NCSES reports available at <http://www.nsf.gov/statistics/>.

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